

# Jom Sains Farmasi 2023



Jom Sains Farmasi 2023, held on August 29th, was an engaging scientific programme designed for children between the ages of 6 and 12. This activity was organised by the Faculty of Pharmacy at UiTM Puncak Alam. The programme had been conducted on a yearly basis starting in 2017 until it was interrupted by the implementation of the movement control order (MCO) due to the COVID-19 pandemic in 2020. We are glad to resume this event once again this year to stimulate the curiosity and engagement of young students in the domains of science, technology, engineering, and mathematics (STEM) education while simultaneously offering them an initial exposure to the profession of pharmacy. The primary objective of the project was to foster a passion for science, especially in the field of pharmacy, among the children while also imparting a diverse range of scientific principles and skills. The curriculum is additionally in accordance with the World Health Organisation's Sustainable Development Goal 4, which aims to ensure inclusive and fair access to high-quality education and foster opportunities for lifelong learning for all individuals.

Over 60 enthusiastic participants graced the meticulously curated programme, which featured several captivating activities meant to engage and entertain. The event, characterised by its unique blend of education and amusement, comprised three distinct and engaging segments: "Miss Cosmetic Millionaire" (a soap-making workshop), "Dr. Curiosity" (featuring an acid-alkali experiment and an intriguing observation of the goat's organ and cell), and "Dr. I-am-Pharmacist" (an immersive pharmacist role-play experience).

## MISS COSMETIC MILLIONAIRE

The "Miss Cosmetic Millionaire" segment offered participants the opportunity to delve into the art of soap making, combining creativity with practical knowledge to craft exquisite cosmetic creations. The soap production process involved the utilisation of an olive oil transparent soap base, known for its exceptional properties and beneficial effects on the skin. Participants were given the opportunity to personalise their creations by incorporating vitamin E, renowned for its powerful antioxidant properties. In addition to the therapeutic ingredients, participants had the privilege of selecting their preferred colours, scents, and shapes, allowing them to customise their soap according to their individual preferences.



## DR. CURIOSITY

During the "Dr. Curiosity" segment, the children were educated on the concept of the pH scale and the use of indicators. Red cabbage juice was employed as a naturally occurring indication in order to examine the properties of several substances, including vinegar, lemon juice, baking soda, and detergent. The observers witnessed the occurrence of the cabbage juice undergoing a colour transformation in response to variations in the acidity or alkalinity of the tested



substances. The participants also acquired knowledge on the process of neutralising an acid or an alkali through the addition of a material with opposite properties. In addition to that, the children were educated on the anatomical structure and physiological processes of the brain and heart in goats. They distinguished between the various organ sections and compared them with human organs. They were astounded by the organs' complexity and structure. The children additionally observed brain and heart cells using a microscope. Additionally, the students acquired the skill of drawing and labelling the observed cellular structures.

## DR. I-AM-PHARMACIST

In "Dr. I-am-Pharmacist", the kids learned about the role of a pharmacist in health care and society. They learned about different types of drugs, such as prescription drugs, over-the-counter drugs, and health supplements. They played a game where they acted as pharmacists and patients. They met Pak Atan, a SimMan® 3G, a state-of-the-art patient simulator that showed symptoms of headache and fever. The kids asked him questions, checked his symptoms, gave him advice, and dispensed medicine. They also had a sing-along about safe drug use and the role of a pharmacist.

The Jom Sains Farmasi 2023 initiative achieved significant success with the participation of volunteers from the undergraduate and graduate students of the Faculty of Pharmacy, as well as undergraduates from Fakultas Farmasi, Universitas Airlangga, Indonesia. This accomplishment was made possible by the collaborative efforts of a committed team from the faculty. The children had a highly enjoyable time engaging in various activities such as games, quizzes, and the distribution of prizes. The participants acquired substantial knowledge and enhanced their scientific skills while engaging in the activities. The children and their parents conveyed their appreciation to the Faculty of Pharmacy for organising an event that was both enjoyable and educational. They expressed their interest in participating in similar programmes in the future.



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